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# FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:  
Claiborne County Schools

Prepared By:  
Tommy Walker

Time Period Covered by This Plan:  
2012 - 2021

Date Plan Prepared:  
2012-02-16

Plan Type:  
Stewardship / Stewardship

This plan was developed in accordance with the rules of the Stewardship program.

**Property Name: Section 27-T12N-R3E**

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## LANDOWNER INFORMATION

Name: Claiborne County Schools  
Mailing Address: P.O. Box 337  
City, State, Zip: Port Gibson, MS 39150  
Country: United States of America  
Contact Numbers: Home Number: 601-437-4352  
Office Number:  
Fax Number:  
  
E-mail Address:  
Social Security Number (optional):

## FORESTER INFORMATION

Name: Tommy Walker , Forester II  
Forester Number: 01473  
Street Address: P.O. Box 77  
City, State, Zip: Vicksburg, MS 39181  
Contact Numbers: Office Number: 601-638-1227  
Fax Number:  
  
E-mail Address:

## PROPERTY LOCATION

County: Claiborne    Total Acres: 613    Latitude: -90.88    Longitude: 31.98  
Section: 27    Township: 12N    Range: 3E

## DISCLAIMER

This plan is intended to be flexible. It may be modified to meet changes in economic conditions, management goals, or other circumstances. The figures in this plan are only estimates. They can and will change. Therefore, any plans or budgets that use these figures should be tempered with that thought.

## INTRODUCTION

This Forest Stewardship Management Plan will serve as a guide for accomplishing the goals and objectives for your property. In addition to addressing your specific goals and objectives, this plan includes recommendations for maintaining soil and water quality and protecting your forest from insects, disease, and wildfire. Recommendations are based on observation and assessment of the site.

## OBJECTIVES

### *Timber Production*

The goal is to produce high quality sawtimber. This will be accomplished through reforestation and timber stand improvement practices such as herbicide applications, prescribed burning, thinning at specified intervals, and other silvicultural practices.

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Forestry Best Management Practices will be implemented to prevent erosion and protect water quality.

*Wildlife Management - General*

The goal is to provide a diversity of habitats suitable for a variety of game and non-game wildlife species. Habitat management will focus on developing a variety of food, cover, water, and space. This will be accomplished by establishing and maintaining access roads and firelanes, providing openings within the forest, and the management of trees located within Streamside Management Zones.

## **PROPERTY DESCRIPTION**

*General Property Information*

This section is located south of the Natchez Trace, between Port Gibson and Hermanville in the central part of the county. It is commonly known as the Teller section. This section contains approximately 613 acres of land of which, 601 acres is forest land. The 12 acres of nonforest land consists of primarily food plots, and a small field. The primary access road is a private woods road across an adjoining landowner, behind a locked gate.

The terrain on this section is gently rolling to very steep. The timber types range from Bluff Hardwood to Mixed Bluff Hardwood and Pine to Loblolly Pine Plantations. It is part of the loess bluff hills. Therefore, the soils are highly productive and highly erodible.

*Water Resources*

This section has several perennial streams, intermittent streams, and drains running throughout the property. All water resources will be managed in accordance with Mississippi's Best Management Practices.

*Timber Production*

The goal is to maximize the production of high quality timber. This will be accomplished through the application of timely thinning and other silvicultural practices designed to enhance timber quality and growth. Forestry Best Management Practices will be implemented to prevent erosion and protect water quality.

*Threatened and Endangered Species*

No threatened and endangered species were identified during the reconnaissance and evaluation of your property.

*Interaction with Surrounding Property*

Prescribed practices should be carried out in a manner that will minimize adverse impacts on surrounding properties. Consideration should be given to potential air, water, visual, and other impacts. In addition, practices carried out should have positive effects on the surrounding community such as improved wildlife habitat and soil stabilization.

*Soils General*

Soils were evaluated on the property to determine the suitability of the site for the proposed activities. Forest practices were planned so as to minimize erosion or other

adverse effects on the soil. The following soils are identified for this property: Memphis and Natchez silt loams are the primary soils on this property located in the Loess Bluff Hills. These soils are very productive sites for both hardwood and Loblolly Pine. The Cherrybark Oak and the Loblolly Pine site index ranges from 95' to over 105'. The primary tree species for this tract are Cherrybark Oak, Shumard Oak, Water Oak, White Oak, Yellow Poplar, Green Ash, and Loblolly Pine.

#### *Archeological and Cultural Resources*

These areas can range from churches, old cemeteries, natural springs, Indian mounds to home sites or other areas of historical significance. No areas of historical significance were found on this tract.

## **GENERAL PROPERTY RECOMMENDATIONS**

### *Forest Protection*

A healthy, vigorously growing stand is the best defense to an attack from a variety of forest insects, plants and pathogens.

#### *Insects and Diseases*

Trees are subject to attack from insects and diseases. Different insects and diseases affect trees according to the age, species, and condition of the trees. Planted stands of pines and pure stands of hardwoods are particularly susceptible to attack. Since there are many different insects and diseases, no attempt will be made here to explain all of them. The property should be inspected at least annually for possible signs of insect and disease activity. Some things to look for are:

- Unseasonable leaf fall
- Discoloration of leaves or needles
- Pitch pockets on pine trees
- Heavy defoliation of hardwood leaves
- Groups of three or more dying trees within a stand

This list does not cover all instances of insect or disease attacks. If anything unusual is noticed, report it to a forester. In most cases, insect and disease problems can be controlled if discovered early.

### *Fire Protection*

Your forest should be protected from wildfire at all times. The best way to protect your investment is by establishing and maintaining firebreaks around the property. Guidelines for establishment and maintenance of firebreaks may be found in Mississippi Forestry Commission publication #107, *Mississippi's Best Management Practices*.

### *Grazing*

Tree seedlings should be protected from grazing until such time as the terminal bud of the sapling is beyond reach of livestock. Domestic livestock should be denied access to all tree planting areas.

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**Boundary Lines**

The Mississippi Forestry Commission has been maintaining the property boundaries on this section on a routine basis for many years. The property boundaries will be painted orange on a 6 year rotation, beginning in 2013.

*Water Quality Protection*

The objective of the landowner is to protect, preserve and enhance all water sources on or transecting the property. This can best be achieved by implementation of Best Management Practices in all aspects of the management of the property.

*Aesthetics*

This tract is in a rural part of the county. Therefore, aesthetics should not be a high priority.

*Ecological Restoration*

Ecological restoration is the process of assisting the recovery of an ecosystem that has been degraded, damaged, or destroyed. A reconnaissance of the property has been conducted and no ecological restoration activities are recommended at this time.

*Wildlife Mgt. Target Species*

The objective of this practice is to provide habitat best suited for the featured or target species. Habitat management can focus on providing food, cover, water, and space to facilitate the target species.

*Environmental Education*

Environmental educational goals can be to provide educational opportunities for children and adults through the development of items such as nature trails with tree identification markers, wildlife viewing areas, picnic areas, parking, public restroom facilities. There are no current plans to develop any of these items on this section.

*Wildlife Management General*

The goal is to provide a diversity of habitats suited for a variety of game and non-game wildlife species. Habitat management will focus on providing a variety of food, cover, water, and space. This will be accomplished, in part, by establishing and maintaining access roads and firelanes, providing openings within the forest, and leaving streamside management zones.

This section currently has 167 acres of streamside management zones which provide good travel corridors for wildlife. Also, wildlife is considered when determining the size and placement of regeneration harvests. Timber loading areas often make good areas for wildlife food plots. There are approximately 8 acres of wildlife food plots currently being maintained by the leaseholder.

*Timber Management*

Timber management goals for this property are to manage timber resources in such a manner as to maximize timber production on a sustained yield basis.

*Recreation*

The primary recreational use of this property is to generate income through a hunting lease.

## SOIL TYPES

*Collins*

The Collins component makes up 90 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains. The parent material consists of silty alluvium deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is very high. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 42 inches during January, February, March, April. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

*Memphis*

The Memphis component makes up 90 percent of the map unit. Slopes are 5 to 8 percent. This component is on uplands. The parent material consists of loess deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is very high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. Loblolly Site Index = 105.

*Memphis*

The Memphis component makes up 60 percent of the map unit. Slopes are 17 to 40 percent. This component is on uplands. The parent material consists of loess deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is very high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The Natchez component makes up 30 percent of the map unit. Slopes are 17 to 40 percent. This component is on hillslopes. The parent material consists of loess deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is very high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria.

## STRATA

### *Strata 1*

#### Strata Description

Strata 1 is comprised of Stand 9. It contains a total of 151 acres of two-aged bluff hardwood and Loblolly Pine pulpwood and sawtimber. Much of the timber is young. The species composition is good and the volume per acre is good. The terrain is gently rolling to very steep.

This stand was established by a group and single select harvest 18 years ago. The Loblolly Pine was planted on a wide spacing in the group select areas after the harvest. Most of the pine is pulpwood size, but it still needs to self prune some more.

#### Strata Recommendations

The long term goal for this strata is to manage it with periodic thinnings for at least the next 20 years. If the hardwood component of this strata is healthy at that time, the pine can be rotated out while the hardwood is left for the remainder of the rotation which should be around age 60.

#### Activity Recommendations

In 2014, Strata 1 and Strata 2/Stand 10 should be thinned. The total sale area will be 183 acres. The trees to remove are as follows: trees of undesirable species, poor quality and unhealthy trees of desirable species, and high risk trees which are competing with better trees. At least 50 % crown cover should be left in all streamside management zones.

### *Strata 2*

#### Strata Description

Strata 2 is comprised of Stands 3, 8, 10, 15, and 22. It contains 167 acres of bluff hardwood sawtimber. Much of this strata lies adjacent to a perennial streams and is being used as a streamside management zone. Much of the timber is near maturity. The species composition is good. The volume per acre is good. The terrain is flat along some of the larger streams to very steep along some of the minor gullies.

#### Strata Recommendations

The long term goal for this strata is to periodically thin it. As adjacent pine stands become mature and are clearcut, portions of this strata that are not needed as SMZs can be clearcut and regenerated with pine.

#### Activity Recommendations

In 2014, Strata 1 and Strata 2/Stand 10 should be thinned. The total sale area will be 183 acres. The trees to remove are as follows: trees of undesirable species, poor quality and unhealthy trees of desirable species, and high risk trees which are competing with better trees. At least 50 % crown cover should be left in all streamside management zones.

In 2018, Strata 3 and Strata 2/Stand 8 should be thinned. The total sale area will be 133 acres. The trees to remove are as follows: trees of undesirable species, poor quality and



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unhealthy trees of desirable species, and high risk trees which are competing with better trees. At least 50 % crown cover should be left in all streamside management zones.

In 2021, Strata 2/Stand 15 and 22 should be thinned. The total sale area will be 93 acres. The trees to remove are as follows: trees of undesirable species, poor quality and unhealthy trees of desirable species, and high risk trees which are competing with better trees. At least 50 % crown cover should be left in all streamside management zones.

*Strata 3*

**Strata Description**

Strata 3 is comprised of Stand 21. It contains a total of 98 acres of bluff hardwood sawtimber and scattered pine. There has not been any harvesting in this strata for many years. Much of the timber is near maturity. The species composition is good and the volume per acre is good. The terrain is gently rolling to very steep.

**Strata Recommendations**

The long term goal for this strata is to thin it to initiate advanced regeneration. At the end of this plan, this strata should be evaluated to determine whether the residual stand should be managed or regenerated.

**Activity Recommendations**

In 2018, Strata 3 and Strata 2/Stand 8 should be thinned. The total sale area will be 133 acres. The trees to remove are as follows: trees of undesirable species, poor quality and unhealthy trees of desirable species, and high risk trees which are competing with better trees. At least 50 % crown cover should be left in all streamside management zones.

*Strata 4*

**Strata Description**

Strata 4 is comprised of Stand 5. It contains a total of 102 acres of 10 year old, submerchantable, hand planted Loblolly Pine. This strata was established by clearcutting, chemical site prep, and planting. The species composition is good, and the stocking is good. The total height ranges from 30-35 feet. The dbh ranges from 3-5 inches. The terrain ranges from gently rolling to steep.

**Strata Recommendations**

The long term goal for this strata is to begin periodic thinning around age 15 and continue thinning until age 35 to 40. At that point this stand will be clearcut and regenerated with Loblolly pine.

**Activity Recommendations**

In 2017, Strata 4 and Strata 6 should be thinned. The total sale area will be 113 acres. This will be a first thinning. Therefore, it will consist of removing every third or fourth row and selecting between take out rows. Where rows cannot be distinguished, 15' wide

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corridors should be harvested. The trees to remove are as follows: trees of undesirable species, poor quality and unhealthy trees of desirable species, and high risk trees which are competing with better trees.

*Strata 5*

**Strata Description**

Strata 5 is comprised of Stand 1. It contains a total of 72 acres of 7 year old, submerchantable, hand planted Loblolly Pine. This strata was established by clearcutting, chemical site prep, and planting. The species composition is good, and the stocking is good. The total height ranges from 20-30 feet. The dbh ranges from 2-4 inches. The terrain is gently rolling.

**Strata Recommendations**

The long term goal for this strata is to begin periodic thinning around age 15 and continue thinning until age 35 to 40. At that point this stand will be clearcut and regenerated with Loblolly pine.

**Activity Recommendations**

In 2020, Strata 5 should be thinned. The total sale area will be 72 acres. This will be a first thinning. Therefore, it will consist of removing every third or fourth row and selecting between take out rows. Where rows cannot be distinguished, 15' wide corridors should be harvested. The trees to remove are as follows: trees of undesirable species, poor quality and unhealthy trees of desirable species, and high risk trees which are competing with better trees.

*Strata 6*

**Strata Description**

Strata 6 is comprised of Stands 13 and 18. It contains a total of 11 acres of 18 year old pine pulpwood. It is overstocked. However, these two stands are too small to manage by themselves. Over time, these stands will be combined with Strata 5.

**Strata Recommendations**

The long term goal for this strata is to begin periodic thinning as soon as adjacent pine stands are merchantable and continue thinning until adjacent stands are age 35 to 40. At that point this stand will be clearcut and regenerated with Loblolly pine.

**Activity Recommendations**

In 2017, Strata 4 and Strata 6 should be thinned. The total sale area will be 113 acres. This will be a first thinning. Therefore, it will consist of removing every third or fourth row and selecting between take out rows. Where rows cannot be distinguished, 15' wide corridors should be harvested. The trees to remove are as follows: trees of undesirable species, poor quality and unhealthy trees of desirable species, and high risk trees which are competing with better trees.

## OTHER PLAN ACTIVITIES

### *Boundary Lines*

#### Line Description

This section has 4 miles of boundary lines and around 4.5 miles of woods roads to maintain.

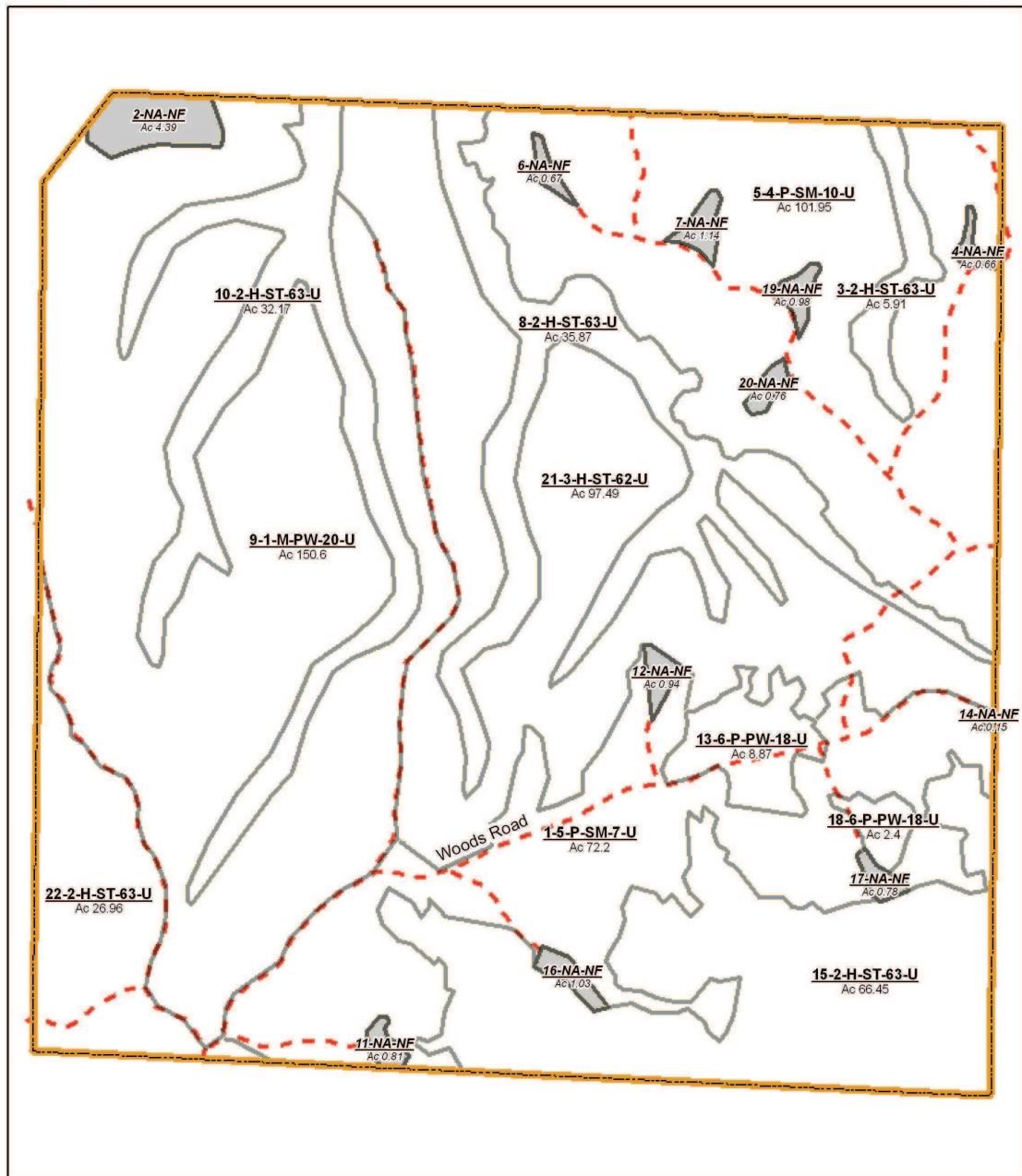
#### Line Recommendations

The property boundaries will be painted on a 6 year rotation beginning in 2013. The woods roads will be maintained as firebreaks on an "As Needed" basis.

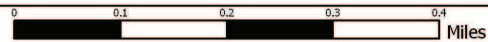


# STAND MAP - FY2012

Claiborne County Schools  
Section 27, T12N, R3E, Claiborne County, Ms.  
613.19 Acres



(12/08/2011)



Prepared by: Tommy Walker



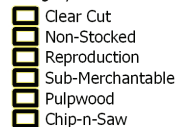
## LEGEND for Section 27, T12N, R3E, Claiborne County, Ms.

### Property



Property

### Category 1: Stands



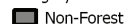
Clear Cut  
Non-Stocked  
Reproduction  
Sub-Merchantable  
Pulpwood  
Chip-n-Saw

### Category 1: Stands (cont)



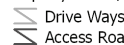
Sawtimber  
Poles

### Category 3: Non-Forest Stands



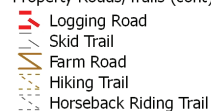
Non-Forest

### Property Roads/Trails



Drive Ways  
Access Road

### Property Roads/Trails (cont)



Logging Road  
Skid Trail  
Farm Road  
Hiking Trail  
Horseback Riding Trail

Stand Activity Summary for  
CLAIBORNE COUNTY SCHOOLS  
27 12N 3E

**Filters Applied:** County: Claiborne  
Client Class: School Trust Land  
District: Capital District  
Client: CLAIBORNE COUNTY S  
STR: 27 12N 3E  
Activity:  
Year: 2012 Through 2021

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
<b>2014</b>						
27 12N 3E	1	9	Harvest, Mechanical, Thin, Machine, Misc Hardwood	151	\$5,285.00	\$61,155.00
27 12N 3E	2	10	Harvest, Mechanical, Thin, Machine, Misc Hardwood	32	\$1,120.00	\$13,312.00
Yearly Totals				183	\$6,405.00	\$74,467.00
<b>2017</b>						
27 12N 3E	4	5	Harvest, Mechanical, Thin, Machine, Loblolly	102	\$3,570.00	\$23,868.00
27 12N 3E	6	13	Harvest, Mechanical, Thin, Machine, Loblolly	9	\$315.00	\$2,106.00
27 12N 3E	6	18	Harvest, Mechanical, Thin, Machine, Loblolly	2	\$70.00	\$468.00
Yearly Totals				113	\$3,955.00	\$26,442.00
<b>2018</b>						
27 12N 3E	2	8	Harvest, Mechanical, Thin, Machine, Misc Hardwood	36	\$1,260.00	\$13,716.00
27 12N 3E	3	21	Harvest, Mechanical, Thin, Machine, Misc Hardwood	97	\$3,395.00	\$64,505.00
Yearly Totals				133	\$4,655.00	\$78,221.00
<b>2020</b>						
27 12N 3E	5	1	Harvest, Mechanical, Thin, Machine, Loblolly	72	\$2,520.00	\$16,848.00
Yearly Totals				72	\$2,520.00	\$16,848.00
<b>2021</b>						
27 12N 3E	2	15	Harvest, Mechanical, Thin, Machine, Misc Hardwood	66	\$2,310.00	\$25,146.00
27 12N 3E	2	22	Harvest, Mechanical, Thin, Machine, Misc Hardwood	27	\$945.00	\$11,232.00
Yearly Totals				93	\$3,255.00	\$36,378.00

STR	Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
Grand Totals				594	\$20,790.00	\$232,356.00